



Missouri Department of Natural Resources

PUBLIC NOTICE

APPLICATION FOR MISSOURI STATE OPERATING PERMIT

DATE: September 8, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed effluent limitations and/or determinations are invited to submit them in writing to the Department of Natural Resources, Northeast Regional Office, 1709 Prospect Drive, Macon, MO 63552, ATTN: G. Irene Crawford, Regional Director. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by October 8, 2006, or received in our office by 5:00 p.m. on October 11, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

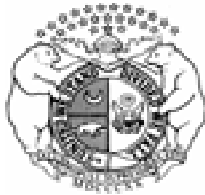
Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.mo.gov/env/wpp/index.html>, or at the Department of Natural Resources, Northeast Regional Office, 1709 Prospect Drive, Macon, Missouri 63552.

Public Notice Date: September 8, 2006
Permit Number: MO-0045811
Northeast Regional Office

FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER
Baring South Wastewater Treatment Facility Highway K Baring, MO 63531	City of Baring P.O. Box 2 Baring, MO 63531
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE
Unnamed tributary to Bridge Creek (U) Bridge Creek (00070)(C) Sec. 26, T63N, R12W, Knox County	Domestic, reissuance

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.

MO-0045811

Owner:

Address:

City of Baring

P.O. Box 2, Baring, MO 63531

Continuing Authority:

Address:

Same as above

Same as above

Facility Name:

Facility Address:

Baring South Wastewater Treatment Facility

Highway K, Baring, MO 63531

Legal Description:

Latitude/Longitude:

NW ¼, NE ¼, Sec. 26, T63N, R12W, Knox County

+4014273/-9212081

Receiving Stream:

First Classified Stream and ID:

USGS Basin & Sub-watershed No.:

Unnamed tributary to Bridge Creek (U)

Bridge Creek (C) (00070)

(07110002-090001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - POTW- SIC # 4952

Single-cell lagoon/artificial wetland field / sludge is retained in lagoon

Design population equivalent is 250.

Design flow is 16,000 gallons per day.

Actual flow is 13,000 gallons per day.

Design sludge production is 3.75 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

A handwritten signature in black ink, appearing to read "Doyle Childers".

Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date
MO 780-0041 (10-93)

G. Irene Crawford, Director, Northeast Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				PAGE NUMBER 2 of 5		
				PERMIT NUMBER MO-0045811		
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect expiration of this permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/quarter**	24hr. estimate
Biochemical Oxygen Demand ₅ ****	mg/L		65	45	once/quarter**	grab
Total Suspended Solids****	mg/L		120	80	once/quarter**	grab
pH – Units	SU	***		***	once/quarter**	grab
Ammonia as N	mg/L	*		*	once/quarter**	grab
Temperature	°C	*		*	once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter in the months of March, June, September, and December.
- *** pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.
- **** This facility is required to meet a removal efficiency of 65% or more.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to area-wide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
5. Report as no-discharge when a discharge does not occur during the report period.
 6. Water Quality Standards
 - (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

C. SPECIAL CONDITIONS (continued)

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities

- (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
- (b) If sludge is not removed by a contract hauler, Permittee is authorized to land apply biosolids that are removed from the domestic wastewater treatment lagoon during lagoon clean-out and maintenance activities. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids from the lagoon. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

DRAFT

Date of Fact Sheet: July 12, 2006

Date of Public Notice: September 1, 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0045811

FACILITY NAME: Baring South Wastewater Treatment Facility

OWNER NAME: City of Baring

LOCATION: Sec. 26, T63N, R12W Knox County:

RECEIVING STREAM: Unnamed tributary to Bridge Creek (C) (00070)

FACILITY CONTACT PERSON: Gary Mallett TELEPHONE: (660) 892-4532

FACILITY DESCRIPTION

Single-cell facultative lagoon with artificial wetland field system with a design flow of 16,000 gallons per day. The facility discharges treated wastewater into an unnamed tributary to Bridge Creek. The discharge point is designated as Outfall #001. Approximately three and three-fourth miles below the discharge point, the flow enters Bridge Creek.

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollutant Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Permits in Missouri are issued by the Director of the Department of Natural Resources under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended).

10 CSR 20-7.031 Missouri Water Quality Standards, Missouri Department of Natural Resources (the Department) "defines the Clean Water Commission water quality objectives in terms of water uses to be maintained and the criteria to protect those uses." The receiving stream's beneficial water uses to be maintained are livestock and wildlife watering and protection of aquatic life, and whole body contact recreational B. To protect these beneficial uses and the water quality of the receiving stream, effluent limitations are being established under federal and state laws.

EFFLUENT LIMIT DERIVATION & RATIONALE

Permit limits have been retained from the previous permit. A Water Quality Review Sheet was developed. Monitoring requirements have been added for ammonia, temperature. Monitoring for ammonia due to the adoption of the U. S. Environmental Protection Agency's "1999 Update of Ambient Water Quality Criteria for Ammonia". Since the distance from the outfall to Bridge Creek is over 2 miles, fecal coliform was not added as a monitoring pollutant.

This permit will be issued for a period of five years.



Missouri Department of Natural Resource
Water Protection Program
NPDES Permits and Engineering Section

Water Quality Review Sheet
Determination of Effluent Limits

Facility Information

FACILITY NAME: Baring South Lagoon NPDES #: MO-0045811

FACILITY TYPE/DESCRIPTION: Existing single cell lagoon to be upgraded

ECOREGION: 8- DIGIT COUNTY: Knox
HUC:
Central Irregular Plains Osage Plains
Mississippi Alluvial Plains Ozark Highlands

LEGAL DESCRIPTION: SE 1/4, NE 1/4, Sec. 26, T63N, R12W LATITUDE/LONGITUDE:

WATER QUALITY HISTORY:

Outfall Characteristics

OUTFALL	DESIGN FLOW	TREATMENT TYPE	RECEIVING WATERBODY	OTHER
001	0.019 MGD	Secondary treatment	Branch of Bridge Creek (U)	

Receiving Waterbody Information

WATERBODY	CLASS	7Q10 (CFS)	*DESIGNATED USES	OTHER CHARACTERISTICS
Branch of Bridge Creek	U	0	General Criteria apply	
Bridge Creek	C	0	LWW, AQL	

*Cool Water Fishery (CLF), Cold Water Fishery (CDF), Irrigation (IRR), Industrial (IND), Boating & Canoeing (BTG), Drinking Water Supply (DWS), Whole Body Contact Recreation (WBC), Protection of Warmwater Aquatic Life and Human Health (AQL), Livestock & Wildlife Watering (LWW)

COMMENTS:

MIXING CONSIDERATIONS

Mixing Zone. None allowed, discharge to unclassified stream.

Zone of Initial Dilution (Z.I.D.). None allowed, discharge is to an unclassified stream.

Permit Limits and Information

TMDL WATERSHED:
(Y OR N)

W.L.A. STUDY
CONDUCTED:
(Y OR N)

DISINFECTION REQUIRED:
(Y OR N)

DISINFECTION WAIVER:
(Y, N, NA)

OUTFALL#

WET TEST (Y OR N): FREQUENCY: _____ A.E.C. _____ LIMIT: _____

PARAMETER	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MONITORING FREQUENCY	SAMPLE TYPE
BOD AND NFR (TSS) (MG/L)		45	30	once/quarter	GRAB
PH STANDARD UNITS (S.U.)	6.0 TO 9.0 S.U.		6.0 TO 9.0 S.U.	ONCE/QUARTER	GRAB
AMMONIA (MG/L)	MONITOR			ONCE/QUARTER	GRAB
TEMPERATURE DEGRESS C	MONITOR			ONCE/QUARTER	GRAB

Please report the date, time, and location for each parameter sampled along with the average daily flow (actual flow measured or estimated, not design flow). All the parameters should be sampled on the same day and within no more than a 2-hour period. If dissolved oxygen (DO) is to be sampled, sampling should take place at dawn. If discharge is contingent to storm events, rainfall should be measured every time there is a discharge.

Receiving Water Monitoring Requirements-may be established later if stream impacts from this discharge occur.

Site XX. (Name)

PARAMETER(S)	SAMPLING FREQUENCY	SAMPLE TYPE	LOCATION

Derivation and Discussion of Limits

IN THE ABSENCE OF ANY STUDY BY THE PERMITTEE REGARDING ACHIEVING IN-STREAM DISSOLVED OXYGEN AND AMMONIA WATER QUALITY STANDARDS, STANDARD TECHNOLOGY BASED LIMITS FOR BOD, TSS AND PH FROM 10 CSR 20-7.015 ARE ASSUMED TO PROTECT THE RECEIVING STREAM BASED ON THE SMALL SIZE OF THE PROPOSED DISCHARGE. "EQUIVALENT TO SECONDARY TREATMENT" EFFLUENT LIMITS WOULD NOT APPEAR TO ADEQUATELY PROTECT THE RECEIVING STREAM DURING LOW FLOW PERIODS. IF THE PERMITTEE SUBMITS A STUDY AS REQUIRED BY 10CSR20-7.015, THE DEPARTMENT WILL REVISIT THE ISSUE OF BOD AND TSS LIMITS. MONITORING FOR TEMPERATURE AND AMMONIA ARE INCLUDED TO DETERMINE WHETHER "REASONABLE POTENTIAL" TO EXCEED STREAM STANDARDS EXISTS AFTER THE FACILITY IS UPGRADED. PERMIT SHOULD CONTAIN A "REOPENER CLAUSE" TO ADDRESS POTENTIAL WATER QUALITY ISSUES SHOULD MONITORING INDICATE WATER QUALITY STANDARDS ARE BEING EXCEEDED DUE IN PART TO THIS FACILITY.

Reviewer: Richard J. Laux
Date: 4 November 2004
Unit Chief: Richard J. Laux

Monitoring and effluent limits contained within this document have been developed in accordance with EPA guidelines using the best available data and are believed to be consistent with Missouri's Water Quality Standards and Effluent Regulations. If additional water quality data or anecdotal information are available that may affect the recommended monitoring and effluent limits, please forward these data and information to the author.